

WEST Search History

DATE: Friday, December 06, 2002

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

L4	L2 and (surfactant or emulsifier) same(peg adj2 fatty adj acid adj ester or castor adj oil or monoglycerides or glycerol adj fatty adj acid adj ester)	7	L4
L3	L2 (peg adj2 fatty adj acid adj ester or castor adj oil or monoglycerides or glycerol adj fatty adj acid adj ester)	43898	L3
L2	cyclodextrin adj5 (uncomplexed or unconjugated or non-complexed or non-conjugated)	95	L2
L1	cyclodextrin same (uncomplexed or unconjugated or non-complexed or non-conjugated)	247	L1

END OF SEARCH HISTORY

=> d his full

(FILE 'HOME' ENTERED AT 16:09:55 ON 06 DEC 2002)

FILE 'CAPLUS' ENTERED AT 16:10:05 ON 06 DEC 2002

L1 289 SEA ABB=ON PLU=ON CYCLODEXTRIN (3A) (UNCOMPLEXED OR UNCONJUGATED OR FREE OR NON-COMPLEXED OR NON-CONJUGATED OR FUNCTIONAL OR UNBOUND)
L2 34 SEA ABB=ON PLU=ON L1 AND (SURFACTANT OR EMULSIFIER OR SOLUBILIZER OR SOLUBILIZING)
L3 0 SEA ABB=ON PLU=ON L2 AND BUFFER? (P) (CITRATE OR CITRIC)
L4 4 SEA ABB=ON PLU=ON L2 AND (CITRATE OR CITRIC)
D L4 IBNIB KWCI 1-
D L4 IBIB KWIC 1-

FILE HOME

FILE CAPLUS

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FILE COVERS 1907 - 6 Dec 2002 VOL 137 ISS 24
FILE LAST UPDATED: 5 Dec 2002 (20021205/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s cyclodextrin (p) complexation

22084 CYCLODEXTRIN
7336 CYCLODEXTRINS
22676 CYCLODEXTRIN
(CYCLODEXTRIN OR CYCLODEXTRINS)
62278 COMPLEXATION
293 COMPLEXATIONS
62376 COMPLEXATION
(COMPLEXATION OR COMPLEXATIONS)

~~L5 2736 CYCLODE~~

=> d his full

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L5 2736 SEA ABB=ON PLU=ON CYCLODEXTRIN (P) COMPLEXATION

L6 8729 SEA ABB=ON PLU=ON CYCLODEXTRIN (P) COMPLEX?

L7 6633 SEA ABB=ON PLU=ON CYCLODEXTRIN (5A) COMPLEX?

L8 208 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER)

L9 0 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (COMPATIBLE OR NON-COMPATIBLE OR IN-COMPATIBLE OR UNCOMPATIBEL)

L10 0 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (COMPATIBLE OR NON-COMPATIBLE OR IN-COMPATIBLE OR UNCOMPATIBLE)

L11 17 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (SDS OR SODIUM DODECYL SULFATE OR DODECANOLPOL YETHOXYLATE)
D L11 IBIB KWIC 1-
D L2 IBIB KWIC 1-

OR MALODOR OR SMELL) (P) (SURFACTANT OR EMULSIFIER OR DETERGENT)

L3 32 SEA ABB=ON PLU=ON (CYCLODEXTRIN INCLUSION COMPLEX) (P)
(SURFACTANT OR EMULSIFIER OR DETERGENT)

L4 0 SEA ABB=ON PLU=ON L3 AND (ALKYL ETHER SULFATE OR TRIETHYLENE
GLYCOL ETHER SULFATE OR TALLOW ALKYL HEXAOETHYLENE SULFATE OR
AMINOETHANESULFONIC ACID OR N-ACYL-N-METHYL TAURATE OR OLEFIN
SULFONATE OR LAURETH SULFATE)

L5 56 SEA ABB=ON PLU=ON (CYCLODEXTRIN COMPLEX) (P) (SURFACTANT OR
EMULSIFIER OR DETERGENT)

L6 0 SEA ABB=ON PLU=ON L5 AND (ALKYL ETHER SULFATE OR TRIETHYLENE
GLYCOL ETHER SULFATE OR TALLOW ALKYL HEXAOETHYLENE SULFATE OR
AMINOETHANESULFONIC ACID OR N-ACYL-N-METHYL TAURATE OR OLEFIN
SULFONATE OR LAURETH SULFATE)

L7 1 SEA ABB=ON PLU=ON L5 AND (N-LAUROYL-N-METHYL-TAURATE OR
SODIUM DODECYL BENZOYL SULFONATE OR LAUROYL SULFATE OR BETAINE
OR SULTAINE OR HYDROXYSULTAINE OR VELVETEX OR LONZAIN OR
MIRATAINE OR MONAQUAT)
D L7 IBIB KWIC

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:09:55 ON 06 DEC 2002

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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22084 CYCLODEXTRIN

7336 CYCLODEXTRINS

22676 CYCLODEXTRIN

(CYCLODEXTRIN OR CYCLODEXTRINS)

~~3087 UNCOMPLEXED~~

~~5764 UNCONJUGATED~~

1076893 FREE

535 FREES

1077340 FREE

(FREE OR FREES)

567661 NON

30 NONS

567685 NON

(NON OR NONS)

27359 COMPLEXED

146 NON-COMPLEXED

(NON (W) COMPLEXED)

567661 NON

30 NONS

L11 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:547111 CAPLUS

DOCUMENT NUMBER: 119:147111

TITLE: A surface tension method for determining binding constants for cyclodextrin inclusion complexes of ionic surfactants

AUTHOR(S): Dharmawardana, Udeni R.; Christian, Sherril D.; Tucker, Edwin E.; Taylor, Richard W.; Scamehorn, John F.

CORPORATE SOURCE: Inst. Appl. Surfactant Res., Univ. Oklahoma, Norman, OK, 73019, USA

SOURCE: Langmuir (1993), 9(9), 2258-63

CODEN: LANGD5; ISSN: 0743-7463

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A new method was developed for detg. binding const. of **complexes** of **cyclodextrins** with surface-active compds., including water-sol. ionic **surfactants**. The technique requires measuring the change in surface tension caused by addn. of a cyclodextrin (CD) to aq. solns. of the **surfactant**; the exptl. results lead directly to inferred values of the thermodyn. activity of the **surfactant**. Surface tension results are reported for three different **surfactants** (SDS, cetylpyridinium chloride (CPC), and CTAB) in the presence and in the absence of added .beta.-CD. Data for CPC are obtained at **surfactant** concns. below and above the crit. micelle concn. Correlations between surface tension and **surfactant** activity are expressed by the Szyszkowski equation, which subsumes the Langmuir adsorption model and the Gibbs equation. The surface tension increases monotonically as .beta.-cyclodextrin is added to ionic **surfactant** solns. At concns. of CD well in excess of the **surfactant** concn., the surface tension approaches that of pure water, indicating that neither the **surfactant**-CD complexes nor CD itself are surface active. Binding const. are inferred from a model that incorporates the parameters of the Szyszkowski equation and mass action const. relating to the formation of micelles from monomers of the **surfactant** and the counterion. Evidence is given that two mols. of CD can complex the C-16 hydrocarbon chain of the cetyl **surfactants**.

ST **cyclodextrin inclusion complex surfactant**
surface tension; **SDS** inclusion compd cyclodextrin; CTAB
inclusion compd cyclodextrin; cetylpyridinium chloride inclusion compd
cyclodextrin

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:470164 CAPLUS

DOCUMENT NUMBER: 117:70164

TITLE: Calorimetric investigation of the complex formation between surfactants and .alpha.-, .beta.- and .gamma.-cyclodextrins

AUTHOR(S): Turco Liveri, V.; Cavallaro, G.; Giammona, G.; Pitarresi, G.; Puglisi, G.; Ventura, C.

CORPORATE SOURCE: Dip. Chim. Fis., Univ. Palermo, Palermo, 90123, Italy

SOURCE: Thermochemica Acta (1992), 199, 125-32

CODEN: THACAS; ISSN: 0040-6031

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A calorimetric technique has been used to study complex formation between .alpha.-, .beta.-, and .gamma.-cyclodextrins (.alpha.CD, .beta.CD, and .gamma.CD) and some **surfactants** (sodium dodecylsulfate (**SDS**), hexadecyl trimethylammonium bromide (CTAB) and p-(1,1,3,3-tetramethylbutyl)phenoxy poly(oxyethyleneglycol) (Triton X-100)). The exptl. data indicate that some complexes (**SDS**-.alpha.CD, **SDS**-.beta.CD and CTAB-.alpha.CD) are very stable and allow direct detn. of their stoichiometry and molar enthalpy of complex formation. Those for other complexes closely fit a model based on an equil. reaction between **surfactant**, **cyclodextrin** and a single **complex**. According to the model, data anal. allows detn. of the stoichiometry, stability const. and molar enthalpy of their complex formation. The thermodyn. parameters indicate that stoichiometry and complex stability are strongly influenced by entropic contributions.

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